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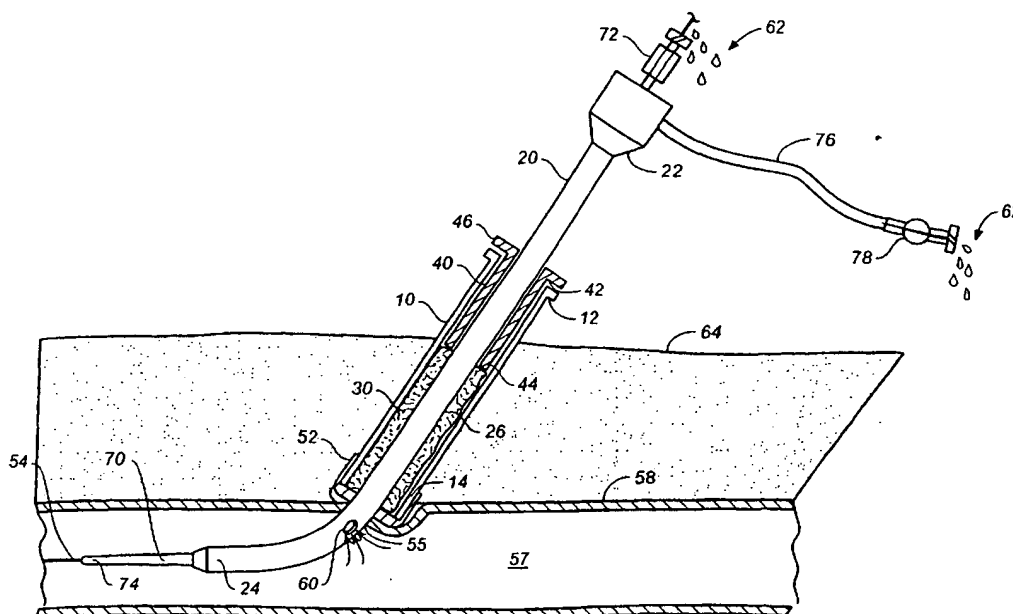
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- (71) Applicant (*for all designated States except US*): SUB-Q, INC. [US/US]; 1062-D Calle Negocio, San Clemente, CA 92673 (US). (88) Date of publication of the international search report:
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- (75) Inventors/Applicants (*for US only*): CRAGG, Andrew,

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SHEATH-MOUNTED ARTERIAL PLUG DELIVERY DEVICE



(57) Abstract: A method of facilitating hemostasis of a blood vessel puncture (55). The method includes the steps of inserting a tubular device (20) into a puncture in a blood vessel (58) to establish access to the blood vessel, providing a vessel closure system (10) around the tubular device, introducing a hemostatic material (30) into a space between the tubular device and vessel closure system, and delivering the hemostatic material adjacent to the puncture to facilitate hemostasis of the puncture.

WO 02/005865 A3

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US01/21978

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) :A61B 17/04
US CL :606/213, 139
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 606/213, 139

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

E. A. S. T.
key words: vessel, puncture, hemostasis

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,437,631 A (JANZEN) 01 AUGUST 1995, see entire document.	1-4, 7-9, 11-33, 35-46
Y	US 6,033,427 A (LEE) 07 MARCH 2000, see entire document.	1-46
Y	US 5,320,639 A (RUDNICK) 14 JUNE 1994, see col. 2, lines 49-68, col. lines 1-31.	1-31

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	*T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
*A document defining the general state of the art which is not considered to be of particular relevance	*X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
*E earlier document published on or after the international filing date	*Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
*L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*G document member of the same patent family
*O document referring to an oral disclosure, use, exhibition or other means	
*P document published prior to the international filing date but later than the priority date claimed	

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